FOS Molecular Data Science - Timetable

Week 1: N	ovember 22nd - 26th		
10:00 - 11:00	11-22 Introduction to FOS Lecture Introduction to FOS Course Lecture Introduction to Molecular Epidemiology Lecture From SPSS to R	B.T. Heijmans P.E. Slagboom	V4-50
	11-22 Introduction to R Lecture Introduction to R and the Cloud Practical Introduction to R - I: Basics	L. Sinke	
	Practical Introduction to R - II: Advanced	L. Sinke	V4-56
13:15 - 17:00	Practical Introduction to R - III: Bioconductor		
10:00 - 12:30	11-24 GWAS Lecture Introduction to Genome-wide Analysis Practical Genome-wide Association Practical Genome-wide Association	M. Beekman	V2-34
13:15 - 17:00	Practical Genome-wide Association		
13:15 - 14:00	Practical Genome-wide Association 11-25 RNA Sequencing Lecture Introduction to Transcriptomics Practical Analysis of Expression Data	M. Beekman R. Coutinho de Almeida	V4-62
Fri 09:15 - 10:30	Practical Analysis of Expression Data 11-26 Finding Genes in Practice	R. Coutinho de Almeida	V2-26
	Lecture Finding Functionally Relevant Genes Practical Finding Genes in Practice	Y. Ramos	
13:15 - 17:00	Practical Finding Genes in Practice		

Week 2: November 29th - December 3rd

Mon 11-29 Functional Genomics 09:00 - 10:30 Self Study Freedman et al. (2001) 10:30 - 11:30 Discussion Freedman et al. (2001) 11:30 - 12:30 Lecture Functional Genomics	I. Meulenbelt	V4-36
13:15 - 14:00 Lecture Introduction to the Epigenome 14:00 - 17:00 Practical Epigenomics	B.T. Heijmans R. Slieker	V4-36

Tue			
	Practical Epigenomics	R.Slieker	V2-26
14:00 - 15:00	Practical Epigenomics Lecture Epigenetics and Prenatal Famine Exposure Interim Evaluation of Participation and Interaction	B.T. Heijmans	
Wed	12 Of Matabalamia		
	12-01 Metabolomics 5 Lecture Metabolomics as Biomarkers Discussion Marioni et al. (2016)	P.E. Slagboom	V2-18
	Lecture Introduction to Metabolomics Practical Metabolomics Data Analysis	M. Beekman E. van den Akker	V2-18
Thu	12-02 Clustoring		
09:15 - 10:00	12-02 Clustering Lecture Clustering Practical Clustering	M. Reinders	V3-14
14:00 - 17:00	Practical Clustering	M. Reinders	
	12-03 Single Cell Sequencing Lecture Single Cell Sequencing Practical Single Cell Sequencing - I	A. Mahfouz	V2-18
	Practical Single Cell Sequencing - II Practical Single Cell Sequencing - III	I. Khatri	
10.00	The section of the se		
Week 3: C	December 6th - 10th		
Mon	12-06 Next Generation Sequencing		
	Lecture NGS Technology Lab Tour NGS Technology	Y. Ariyurek	V3-14
11:15 - 12:30	Lecture Exome Sequencing 12-06 Exome Sequencing	Y. Ramos	
13:15 - 17:00	Practical Exome Sequencing	I. Meulenbelt	
Tue	12-07 MR and Integrative Omics		
09:15 - 10:30	Lecture Integrative Analysis and MR	B.T. Heijmans	V4-68
	Practical Integrative Analysis and MR 12-07 Animal Models of Ageing		
	Lecture Animal Models of Ageing Self Study Animal Models of Ageing	V. Raz	V4-68
	Discussion Animal Models of Ageing		

11:00 - 12:30 13:15 - 16:00	12-08 Project Lecture Where Does Research Start? Project Formulation of Hypothesis Project Formulation of Hypothesis & Objectives Lecture Directed Acyclic Graphs	P.E. Slagboom B.T. Heijmans I. Meulenbelt	V4-50
09:00 - 11:30 Thu 09:00 - 11:30 11:30 - 12:30	Project Proposal Project Proposal Lecture Using online databases	B.T. Heijmans	V4-50
Fri 09:00 - 12:30	Project Pilot Data Project Pilot Data Project Pilot Data		V2-26
Mon	Project Pilot Data Project		V3-46
	Project Project Synopsis Project Project Synopsis		V3-12
	Project Prepare Presentation Project Prepare Presentation		V2-34
13:15 - 16:00	Project Project Presentations & Defence Project Presentations & Defence Looking Back on the Course	P.E. Slagboom B.T. Heijmans I. Meulenbelt	V4-68
	Project Peer Discussions Project Presentations & Defence		V4-26
13:15 - 15:00	Reflective Assignment	I. Meulenbelt B.T. Heijmans	CZ-4 762